

DP-304939

CONTROL OF MAGNETORHEOLOGICAL ENGINE MOUNT

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ABSTRACT OF THE DISCLOSURE

A system and method of controlling engine vibration mounted within a vehicle including at least one hydraulic mount, each mount including a fluid chamber. A pair of accelerometers sense relative acceleration across the mount between the engine and the frame and generate a relative acceleration signal. A control unit is electrically connected to the accelerometers. The control unit is adapted to generate an electronic control signal in response to the relative acceleration signal. The control device is responsive to the electric control signal for controlling the damping force of the hydraulic mount. A control algorithm calibrates the control unit such that maximum vibration damping occurs at and around the engine resonance bounce frequency.

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